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US005914763A

**United States Patent** [19]**Fujii et al.**[11] **Patent Number:** **5,914,763**[45] **Date of Patent:** **Jun. 22, 1999**

[54] **LIQUID CRYSTAL DISPLAY WITH  
SUBSTANTIALLY EQUAL RESISTANCES  
FOR SETS OF TERMINAL ELECTRODES  
AND INCLINED WIRING ELECTRODES**

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[21] **Appl. No.:** **09/056,780**

[22] **Filed:** **Apr. 8, 1998**

**Related U.S. Application Data**

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Pat. No. 5,757,450.

**[30] Foreign Application Priority Data**

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Sep. 8, 1994	[JP]	Japan	6-214825
Sep. 12, 1994	[JP]	Japan	6-216857

[51] **Int. Cl.<sup>6</sup>** ..... **G02F 1/1345; G02F 1/1343**

[52] **U.S. Cl.** ..... **349/149; 349/143; 349/150;**  
**349/152**

[58] **Field of Search** ..... **349/143, 152,**  
**349/150, 149**

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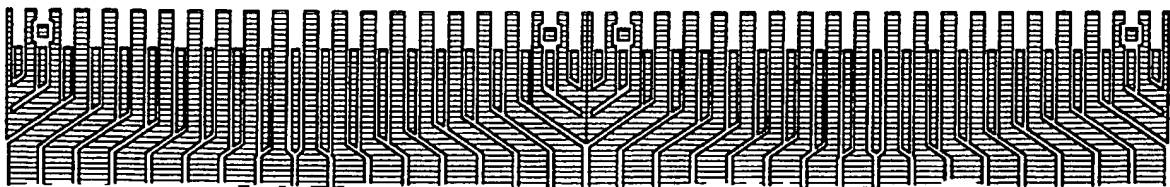
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LLP

**[57] ABSTRACT**

A liquid crystal display including a plurality of parallel display electrodes wired over an electrode substrate, terminals for the display electrodes led out to the end portion of the electrode substrate and connected to TCPs, the terminals having pitches smaller than those of the display electrodes, and leadout wirings for connecting the display electrodes and the terminals. The leadout wirings each consist of a portion extending from a respective display electrode as it is, a portion extended from the respective terminals as it is, and almost parallel, inclined linear wiring that connects the two extended portions. The length of the two extended portions and the width of the inclined linear wiring are adjusted so that the wiring resistances of the individual leadout wirings are substantially equal.

**24 Claims, 27 Drawing Sheets**

The  
United  
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of  
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*Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.*

*Therefore, this*

United States Patent

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